

FIG. 1

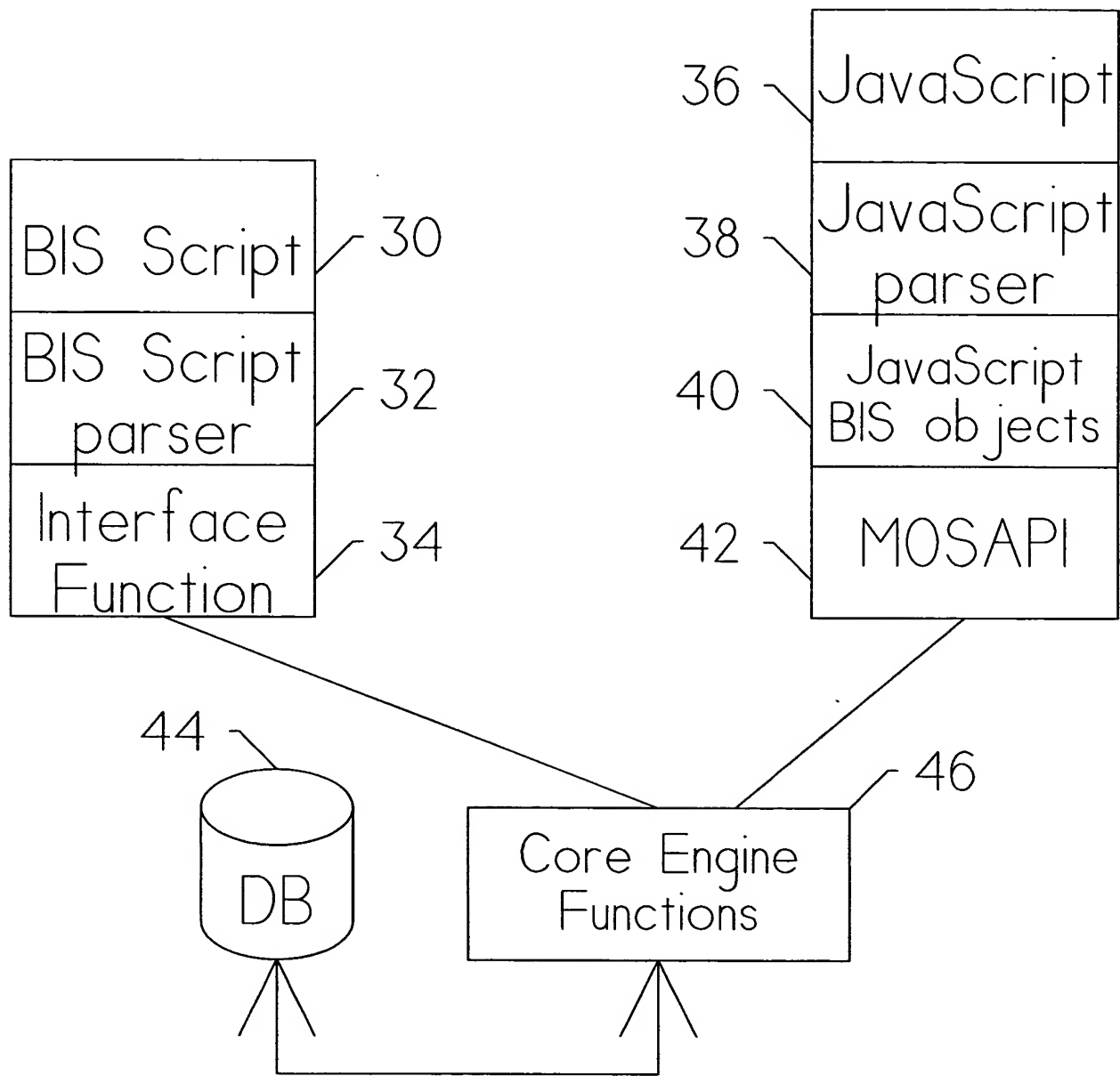


FIG. 2

TYPICAL FUNCTIONS FOR DATASET OBJECT oDs:

```

oDs.addRecord({colVal{....{colVal50}}})
oDs.addRecords(numRecords{colVal{....{colVal50}}})
oDs.cancelRecordUpdate()
oDs.close({bulkUpdateOption})
oDs.column[columnID].name
oDs.column[columnID].size
oDs.column[columnID].value
oDs.columnCount
oDs.copy()
oDs.create(container.oCrCol{crReportTypes=crTemporary})
oDs.createFrom(container.source{crReportTypes=crTemporary})
oDs.currentRecord
oDs.deleteRecords({numRecords-1})
oDs.findRecord(oFindRecordParams.recordNumber{columnNumber{columnPosition}})
oDs.firstRecord()
oDs.insertRecord({colVal{....{colVal50}}})
oDs.insertRecords(numRecords{colVal{....{colVal50}}})
oDs.lastRecord()
oDs.name
oDs.nextRecord()
oDs.open(dataset-id.access{wait=true})
oDs.overwrite
oDs.prevRecord()
oDs.recordCount
oDs.remove()
oDs.save(container)
oDs.searchRecord(oSearchRecordParams.recordNumber)
oDs.sort(oSortParams)
//bulk update
//read only
//read only
//read only
//returns Dataset object
//creates new Dataset object
//creates new Dataset object
//read only
//controls Dataset result
//read only
//deletes dataset and Dataset object
//returns dataset ID

```

FIG. 3

VALUE-ADD POWER FUNCTIONS FOR DATASET OBJECTS oDs

```
oDs.compareDatasets(.CompareParams,oCompareStatus)
```

```
//Dataset result is returned as controlled by the Dataset "overwrite" property  
oDs.calculate(oCalculateParams,numberOfRecords{,recordsProcessed})  
oDs.combineDatasets(oCombineParams{,recordsFound{,recordsCompared}})  
oDs.find(oFindParams{recordsFound})  
oDs.interval(.IntervalParams{oIntervalStatus})  
oDs.search(oSearchParams{,recordsFound{,recordsSearched}})  
oDs.tally(oTallyParams{oTallyStatus})
```

FIG. 4

```
var oSearchParams = new SearchParams():

    oSearchParams.caseSensitive
    oSearchParams.findNumeric
    oSearchParams.group
    oSearchParams.invert
    oSearchParams.maxFinds
    oSearchParams.numberOfRecordsToSearch
    oSearchParams.startRecordNumber

    oSearchParams.columnItem[n].columnInfo("columnid{{startPos.endPos}}",{dateFormat})
    oSearchParams.searchItem[n].addValueInfo(columnItem. value{.valueRange})

//Calling format
oDs.search(oSearchParams,recordsFound{recordsSearched})
```

FIG. 5

Partial JavaScript

```
// Search "CustCode", "StCd" and last 4 characters of the "Product Type"
// columns
. . . .
var srh = new SearchParams();
srh.columnItem(1).columnInfo("CustCode");
srh.columnItem(2).columnInfo("Product Type(6, 9)");
srh.columnItem(3).columnInfo("StCd");
srh.searchItem(1).addValueInfo(1, "amco");
srh.searchItem(1).addValueInfo(2, "box0", "box1");
srh.searchItem(1).addValueInfo(3, "ip");
srh.searchItem(2).addValueInfo(3, "ip");           //can be out
srh.searchItem(2).addValueInfo(2, "box2", "box3"); //of order
srh.searchItem(2).addValueInfo(1, "intr");
srh.searchItem(3).addValueInfo(1, "dico");
srh.searchItem(3).addValueInfo(2, "box4", "box5");
srh.searchItem(3).addValueInfo(3, "or");
srh.searchItem(4).addValueInfo(1, "arco");
srh.searchItem(4).addValueInfo(2, "box6", "box7");
srh.searchItem(4).addValueInfo(3, "sh");
srh.searchItem(5).addValueInfo(1, "amco");
srh.searchItem(5).addValueInfo(2, "box8", "box9");
srh.searchItem(5).addValueInfo(3, "or");
var nFnd = nSrh = 0;
ds2.search(srh, nFnd, nSrh);
```

FIG. 6

Equivalent MAPPER run-script:

```
@SRH, O.B.2 ' 2-2.20-4.45-4 _.'ip'.box0'.amco'/r.'ip'.boxl'.amco'/_.'ip'.b\
ox2'.intr'/r.'ip'.box3'.intr'/_.'or'.box4'.dico'/r.'or'.box5'.dico'/_.'s\
h'.box6'.arco'/r.'sh'.box7'.arco'/_.'or'.box8'.amco'/r.'or'.box9'.amco'/_.
```

Results:

*St.	Status.	By.	Product	Serial.	Produc	Order	Cust.	Produc	Produc	Ship	Ship	Spc
*CD.	Date.	In.	Type	Number.	Cost	Number	Code	Plan	Actual	Date	Order	Cod
*----	-----	..	-----	-----	-----	-----	----	-----	-----	-----	-----	----
IP	831224	LS	BLACKBOX1	436767		84389	AMCO	831223	831224			
IP	831225	LS	BLACKBOX1	436768		84390	AMCO	831223	831225			
IP	831219	LS	BLACKBOX2	637071		84353	INTR	831218	831219			
SH	831203	LS	BLACKBOX6	785367		52833	ARCO	831201	831202	831203	S8934	
OR	831217	LS	BLACKBOX9			98755	AMCO					
OR	831210	LS	GREENBOX5			99753	DICO					

FIG. 7

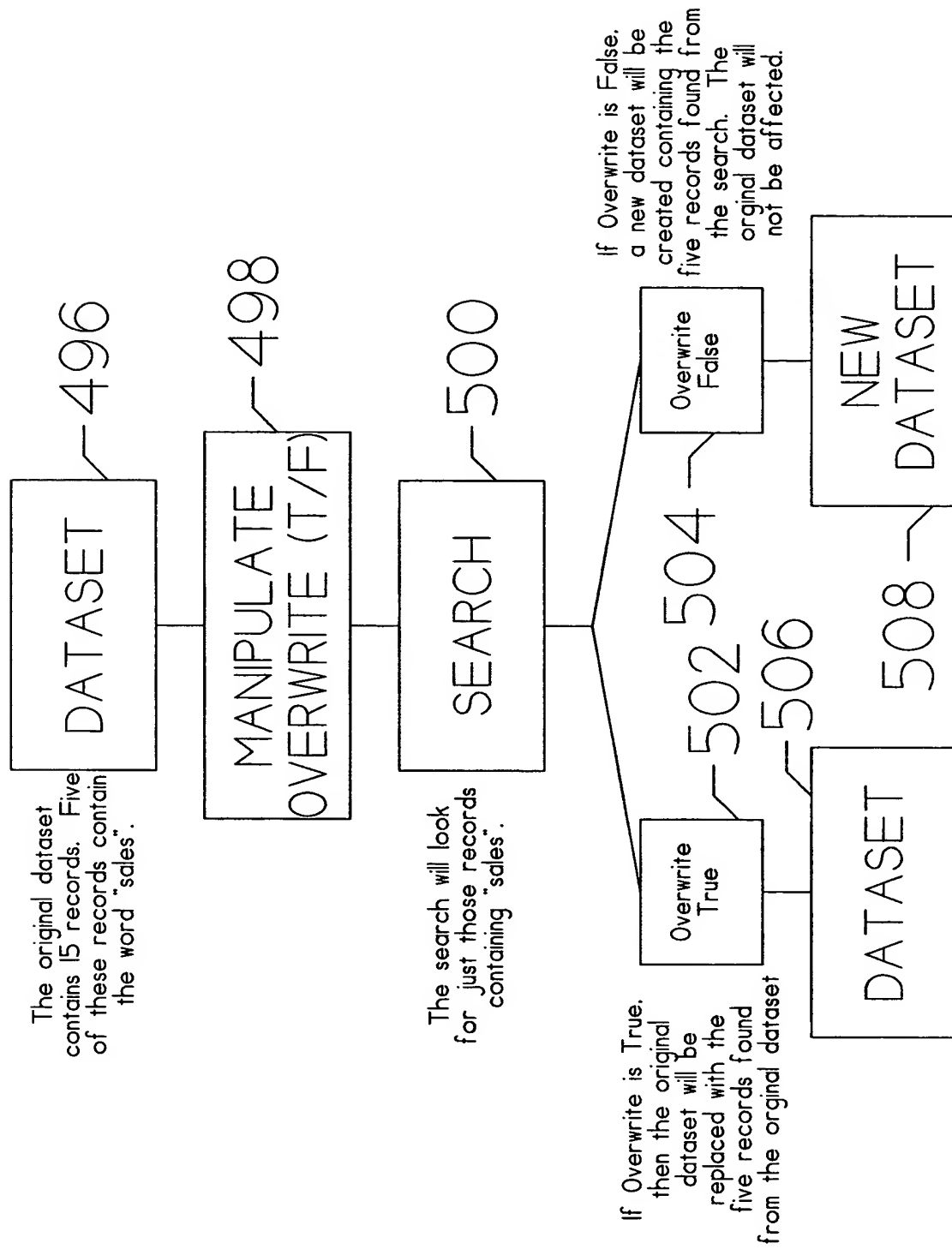


FIG. 8